

FIG. 1

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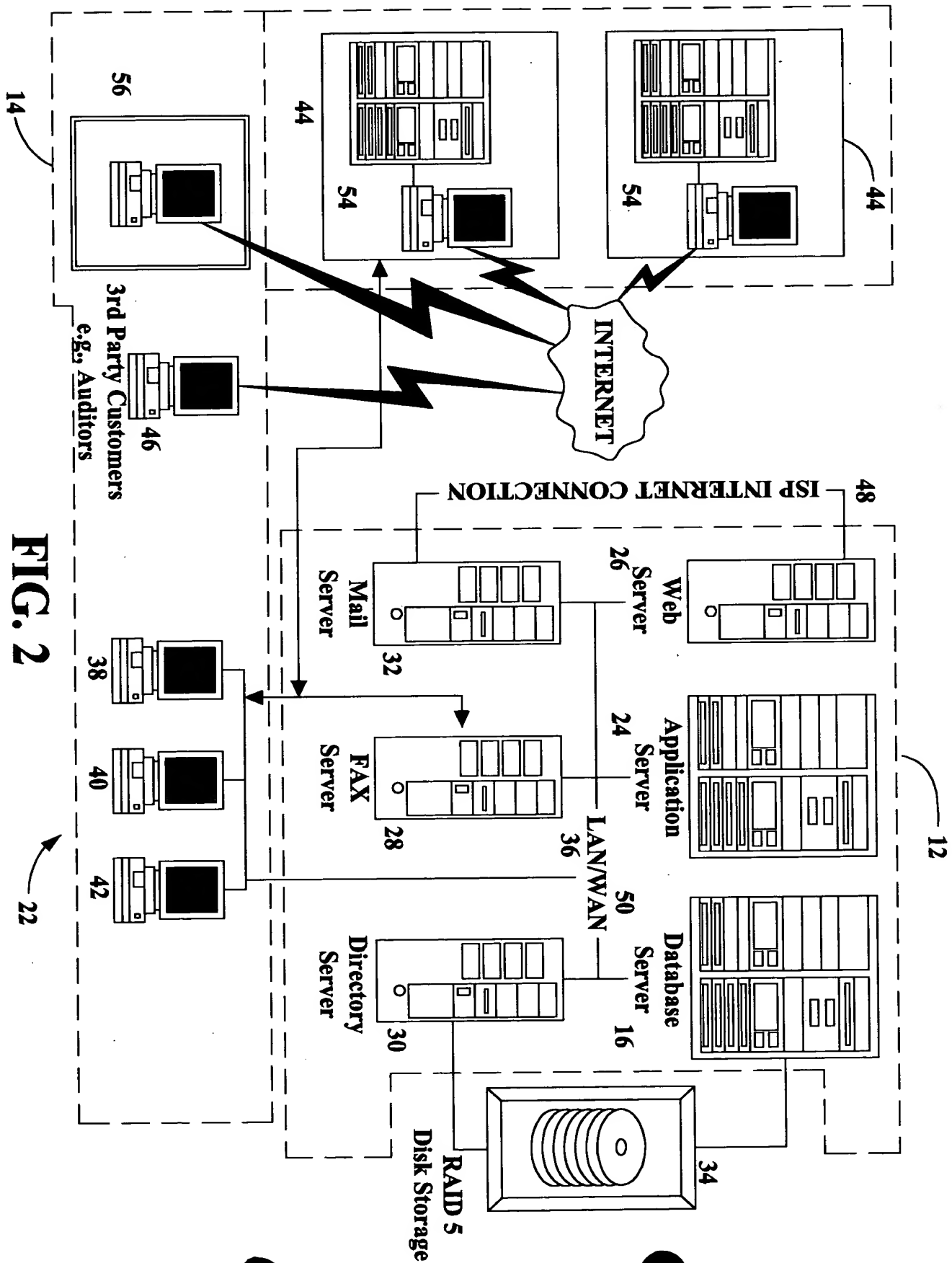


FIG. 2

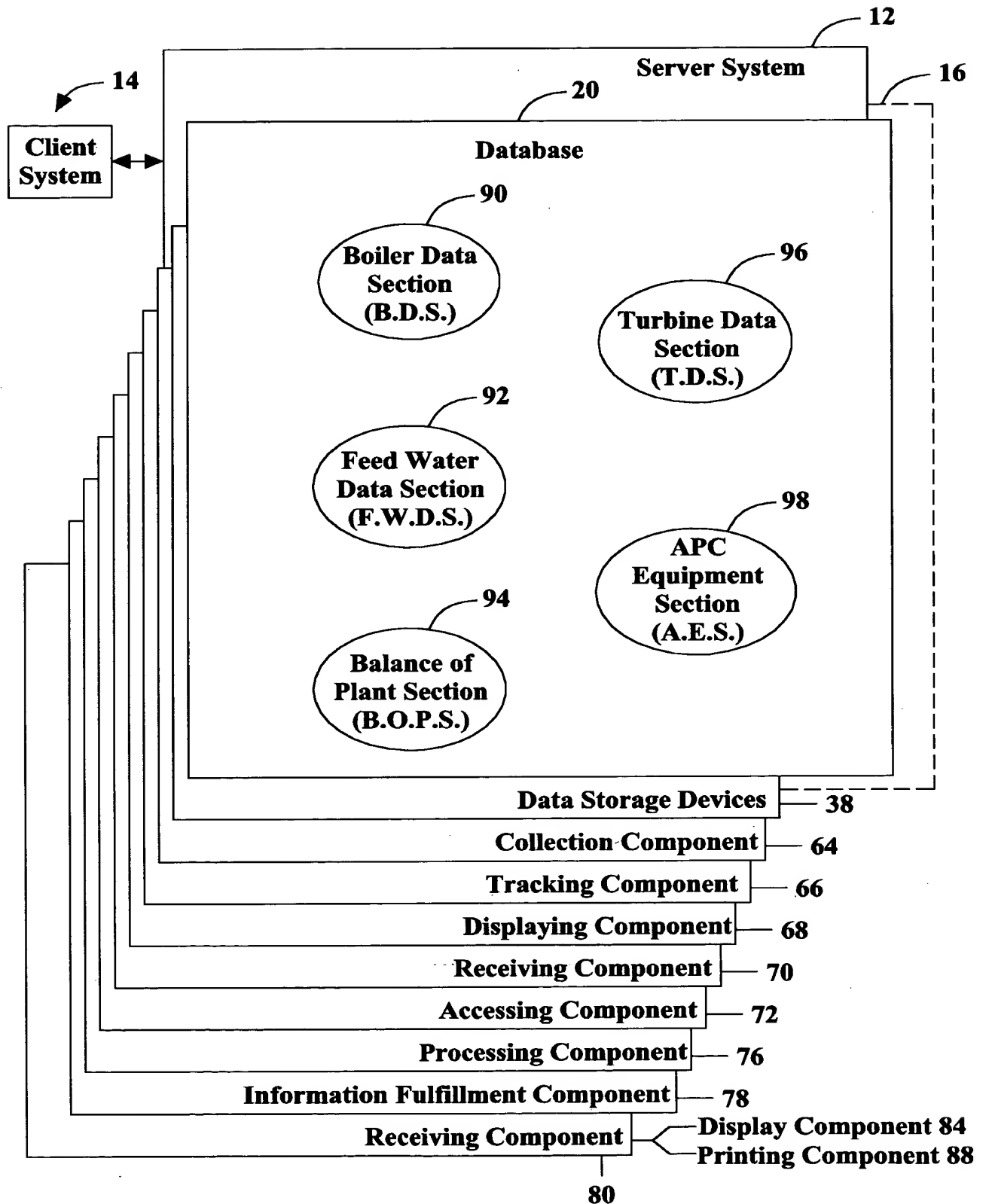


FIG. 3

File Name CoalPerf031601
Project Name Sample Project

Location USA

Operator To Be Determined

Facility Generation Information (per unit information):

122 — Unit Gross Output (Input 0 If N/A)

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
373	0	0	0	0	0	0	0

House Load

TYPICAL

124

126 — Type of Unit

PULVERIZED COAL ▼

Existing Operational Hours From CO

148,920 0 0 0 0 0 0 0

Dispatch Information

Unit 1

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	100.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	100.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	100.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	100.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

FIG. 4

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Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	95.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	95.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	95.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 5

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Unit 2

<u>Percentage of Available Hours Dispatched</u>											
		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
<u>Dispatched Load</u>	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
<u>Dispatched Load</u>	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 6

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Unit 3		Percentage of Available Hours Dispatched									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Dispatched Load	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
Dispatched Load	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 7

Unit 4

<u>Percentage of Available Hours Dispatched</u>											
		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Dispatched Load	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
<u>Dispatched Load</u>		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Dispatched Load	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 8

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Unit 5		Percentage of Available Hours Dispatched									
		Dispatched Load									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Percentage of Available Hours Dispatched	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Dispatched Load	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 9

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Unit 6		Percentage of Available Hours Dispatched									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Dispatched Load	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
Dispatched Load	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 10

Unit 7

<u>Percentage of Available Hours Dispatched</u>											
		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Dispatched Load	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Dispatched Load	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 11

Unit 8

<u>Percentage of Available Hours Dispatched</u>											
		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Dispatched Load	January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
	March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
	September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
	December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
<u>Dispatched Load</u>		<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Dispatched Load	January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
	April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
	October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
	December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

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FIG. 12

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Fuels Information: 142

ACTUAL ANALYSIS ▼

Moisture & Ash Free

Carbon	74.66%
Hydrogen	5.26%
Nitrogen	1.08%
Chlorine	0.02%
Sulfur	1.31%
Oxygen	18.24%

Proximate (Sulfur Free)

Fixed Carbon	34.00%
Volatile Matter	30.70%
Moisture	29.80%
Ash	5.60%
Excess Air	20.00%
HHV	9.500

Ash Mineral Analysis

Silica - SiO2	31.00%
Alumina - Al2O3	14.00%
Titania - Ti2O3	1.10%
Ferric Oxide - Fe2O3	6.60%
Lime - CaO	24.60%
Magnesia - MgO	6.00%
Potassium Oxide - K2O	0.26%
Sodium Oxide - Na2O	1.30%
Sulfur Trioxide - SO3	12.20%
Phosphorous Pentoxide - P2O5	0.70%
Undetermined	2.30%

Operational Information:

Cycle ACTUAL CYCLE VALUES ▼

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	Superheater Flow (#/hr)	Outlet Pressure (psig)	Outlet Temperature
Unit 1	2,568,331	2,400	1,000
Unit 2			
Unit 3			
Unit 4			
Unit 5			
Unit 6			
Unit 7			
Unit 8			

140

FIG. 13

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	Reheater Flow (#/hr)	Inlet Pressure (psig)	Outlet Pressure (psig)	Inlet Temperature (F)	Outlet Temperature (F)
Unit 1	2,254,665	639	574	660	1,000
Unit 2					
Unit 3					
Unit 4					
Unit 5					
Unit 6					
Unit 7					
Unit 8					
Feedwater Temperature (F) 146					
Unit 1	490				
Unit 2	0				
Unit 3	0				
Unit 4	0				
Unit 5	0				
Unit 6	0				
Unit 7	0				
Unit 8	0				
Stack Temperature (F) 148					
ACTUAL ▼					
Unit 1	275				
Unit 2	0				
Unit 3	0				
Unit 4	0				
Unit 5	0				
Unit 6	0				
Unit 7	0				
Unit 8	0				

140

FIG. 14

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Facility Equipment Information:

Flyash Control Equipment 162

Unit 1	BAGHOUSE	▼
Unit 2	ESP	▼
Unit 3	BAGHOUSE PLUS GORETEX BAGS	▼
Unit 4	ESP	▼
Unit 5	ESP	▼
Unit 6	ESP	▼
Unit 7	ESP	▼
Unit 8	ESP	▼

SO2 Control Equipment

164

Unit 1	SCRUBBER	▼	LIME	▼
Unit 2	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 3	DRY INJECTION	▼	LIME	▼
Unit 4	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 5	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 6	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 7	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 8	NO SO2 EQUIPMENT	▼	LIME	▼

160

FIG. 15

T06080"E28E860

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166

Mercury Control Equipment

Unit 1	ACTIVATED CARBON	▼
Unit 2	NO HG CONTROL	▼
Unit 3	NO HG CONTROL	▼
Unit 4	NO HG CONTROL	▼
Unit 5	NO HG CONTROL	▼
Unit 6	NO HG CONTROL	▼
Unit 7	NO HG CONTROL	▼
Unit 8	NO HG CONTROL	▼

168

NOx Control Equipment

Unit 1	SCR	▼
Unit 2	LOW NOX BURNERS	▼
Unit 3	SNCR	▼
Unit 4	LOW NOX BURNERS	▼
Unit 5	LOW NOX BURNERS	▼
Unit 6	LOW NOX BURNERS	▼
Unit 7	LOW NOX BURNERS	▼
Unit 8	LOW NOX BURNERS	▼

170

Pricing Information:

Coal Pricing

FOB Mine	\$15.00
Transportation	\$15.00
	\$30.00

160

FIG. 16

202

STEAM CONDITIONS:

Without QF Steam

Superheater Flow: 2,568,331
Reheater Flow: 2,254,665

With Equiv. QF Steam

2,568,331 lb/hr
2,254,665 lb/hr

204

Inlet Conditions:		Superheat	Reheat
Steam Pressure - psia	2,470	639	
Steam Quality	0		
Water/Steam Temp. - F	490	660	
Enthalpy	476	1,325	
Outlet Conditions:			
Steam Pressure - psia	2,415	589	
Steam Temp. - Deg. F	1,000	1,000	
Enthalpy	1,460	1,518	
Heat Input	984	192	

208

QF HEAT LOSS		No Loss	
Pounds Per Hour	0		
Pressure - psia	464,696		
Temperature	460		
Degrees of SH	50		
QF Steam Enthalpy	1243.18		
FW Enthalpy	476.14		
Heat Loss - Btu's	0		Btu's
Increase in Steam - #/hr	0		#/hr
	0.00%		
Equiv. Output - MW	373		MW

No Loss	Included
---------	----------

Pounds Per Year 0.0000E+00

210

Reheat-To Superheat Ratio 0.877871661

MCR	Partial Load
2.55	0.0000
>55	0.9589

206

FIG. 17

190

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PREDICTED PERFORMANCE: AVERAGE LOAD			
FUEL	Pulverized Coal		
TURBINE STEAM FLOW CORRECTION FACTOR			
EVAPORATION	Superheater:		
	Reheater:		
TEMP. AT SUPERHEATER/REHEATER OUTLET	F	1,000	1,000
PRES. AT SUPERHEATER/REHEATER OUTLET	psig	2,400	2,400
FEEDWATER TEMP.	F	490	490
GAS TEMP. LEAVING AIR HEATER	F	275	268
	(uncorr.)		
AMBIENT AIR TEMP.	F	80	80
AIR TEMP. LEAVING THE AIR HEATER (APPROX)	F	552	
EXCESS AIR	pct	20	20
HEAT LOSS			
			LHV
	pct	4.36%	4.20%
DRY GAS	pct	8.04%	8.02%
H2O & H2 IN FUEL	pct	0.10%	0.10%
H2O IN AIR	pct	0.25%	0.24%
CARBON	pct	0.35%	0.33%
RADIATION	pct	1.50%	1.43%
MFG. MARGIN	pct	-0.41%	-0.39%
HEAT CREDITS	pct	0.00%	0.00%
BLOWDOWN	pct	14.19%	13.92%
TOTAL	pct		6.15%
EFFICIENCY	pct	85.81%	86.08%
			93.85%
GROSS HEAT FIRED	MM/btu/hr	3,554.99	3,366.55

FIG. 18

190

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FUEL FIRED PER HOUR	lb/hr	418,234	tonnes/hr	396,065	tonnes/hr
AVERAGE LOAD CONDITION DURING AVAILABLE HOURS	TPH	209.12	190	198.03	180
AVAILABLE HOURS	%	100.00%		95.00%	
FUEL FIRED PER YEAR	t/yr	8,256		8,256	
		1,726,472		1,634,955	
TOTAL COMBUSTION PRODUCTS	lb/hr	3,601,358		3,410,456	
	ACFM	1,109,079			
TOTAL COMBUSTION AIR	lb/hr	3,183,124		3,014,392	
	ACFM	997,176			
TOTAL ASH (100% UP)	t/hr	11.50		10.89	
TOTAL LIMESTONE (100% UP)	t/hr	3.10		2.93	
	t/hr	25,586		24,230	
TOTAL FLYASH/LIMESTONE REMOVAL SYSTEM LOADING	t/hr	14.60		13.83	
FLUE GAS TO STACK	lb/hr	3,601,358		114,152	
LUNGSTROM AIR HEATER LEAKAGE	lb/hr	0		3,410,4560	
SOOTBLOWING STEAM	lb/hr	0		0	
NET EVAPORATION	lb/hr	2,568,331		2,439,914	
POUNDS STM/KW	lb/hr	6.89			
NO. OF UNITS		1			
<u>HEAT RATE CALCULATION (APPROX.)</u>					
Gross Heat Rate (Total Plant):	BTU/KW HR				
Net Heat Rate (Turbine Only):	BTU/KW HR				
Plant Gross Heat Rate:		192			
Plant Net Heat Rate:		194			
	BTU/KW HR				
		9,543	HHV	10,068	kJ/kWh
		8,824	LHV	9,310	
		10,098	HHV	10,654	
		9,338	LHV	9,852	
					BTU/KW HR
					9,513
					8,796
					10,065
					9,308
					10,621
					9,820

FIG. 19

106080" E28E2860

2001									
	Total Plant Costs	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8 Total
Direct Labor:									
Adjusted for local labor requirements yes=1, no=0	0								
	\$8,459,453							\$8,459,453	F
Operator's Fees & Services:	\$327,939							\$327,939	F
Bonus Payments:	\$0							\$0	F
Home Office Technical Support:	\$0							\$0	F
Percent of Annual Labor:									
Warranty Support:	\$0							\$0	F
Percent of Annual Labor:									
Planned Maintenance:	\$4,100,334							\$4,100,334	M
Boiler:									
Turbine: (Major Turbine Outage assumed in 1998)									
APC Equipment:									
Feedwater System:									
BOP:									
Unplanned Maintenance:	\$410,033							\$410,033	M
10% of Planned Maintenance:									
Planned Spare Parts:									V
Boiler:	\$1,731,661							\$1,731,661	V
Turbine:	\$766,330							\$766,330	V
APC Equipment:	\$149,151							\$149,151	V
Feedwater System:	\$62,661							\$62,661	V
BOP:	\$176,591							\$176,591	V
	\$2,866,394								

FIG. 20

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[illegible]

FIG. 21

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**O & M Cost Summary For:
2000**

	Fixed Costs	Variable Costs	Major Maintenance	Fuel
Direct Labor:	\$6,459,453			
Operator's Fees & Services:	\$327,939			
Bonus Payments:	\$0			
Home Office Technical Support:	\$0			
Warranty Support:	\$0			
Planned Maintenance:			\$4,100,334	
Power Marketing & Resource Management:	\$0			
Unplanned Maintenance:			\$410,033	
Planned Spare Parts:				
Boiler:		\$1,731,661		
Turbine:		\$756,330		
APC Equipment:		\$149,151		
Feedwater System:		\$82,661		
BOP:		<u>\$176,591</u>		
		\$2,866,394		

FIG. 22

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Unplanned Spare Parts: \$2,886,394

Employee Travel & Relocation: \$86,300

Other Employee Expenses, Fees and Services: \$286,422

Office/Administration expenses: \$361,973

Contract Services: Included

Ash Disposal: \$1,126,990

Start-up Fuel: \$84,716

Consumables: \$379,977

Chemicals: \$458,886

Coal: \$46,510,069

Limestone: \$359,458

Purchased Power: \$212,706

Equipment Rental: \$1,418,553

					Total Generation Costs
Total Operating Budget	1 \$9,622,066 13.65%	\$7,216,116 10.35%	\$4,610,068 8.47%	\$4,610,068 8.47%	\$69,780,637
	Fixed Costs \$0.0033	Variable Costs \$0.0026	Maintenance \$0.0166	Maintenance \$0.0166	\$0.0239

230

FIG. 23

File Name: CoalPer031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

240

Facility Generation Information (per unit information)									
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total
Facility Net Output:	1	0	0	0	0	0	0	0	
House Load (~5.5%):	352.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.0 MW
	5.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
House Load in MW									
Line Losses:									
Unit Gross Output:	0	0	0	0	0	0	0	0	
	373	0	0	0	0	0	0	0	Total
									373 MW
Total Installed Capacity in MW	373								
Equivalent Gross	373	0	0	0	0	0	0	0	373 MW
O&M Costs Calculated:									
Equiv. Increased MW Output:	1	1	1	1	1	1	1	1	
(Approximate)	0	0	0	0	0	0	0	0	
	373	0	0	0	0	0	0	0	
Gross Output Used in O&M Calculations:	373	0	0	0	0	0	0	0	
Unit Net Heat Rate (HHV)									
	BTU/KW HR	0	0	0	0	0	0	0	BTU/kWh
	10,098	0	0	0	0	0	0	0	
	kJ/kWh	10,654	0	0	0	0	0	0	kJ/kWh

FIG. 24

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Operational Information For: 2001											
Base O&M Labor Costs On	Unit In Operation	Yes=1, No=0	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total
	1		1	0	0	0	0	0	0	0	1
Gross Maximum Capacity			373	0	0	0	0	0	0	0	373
Net Maximum Capacity			352	0	0	0	0	0	0	0	352
Gross Generation (Actual)			2,921,796	0	0	0	0	0	0	0	2,921,796
			2,761,097	0	0	0	0	0	0	0	2,761,097
Period Hours	Per Year = 1, Per Month = 2	1	8,760	0	0	0	0	0	0	0	0
Available Hours	Forced Outage Hours		8,256	0	0	0	0	0	0	0	0
	Planned Outage Hours		0	0	0	0	0	0	0	0	0
	Maintenance Outage Hours		0	0	0	0	0	0	0	0	0
Average Load Condition (Gross)	MW	%	354	0	0	0	0	0	0	0	MW
Average Load Condition (Net)	MW	%	334	0	0	0	0	0	0	0	MW
			95.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<div><div>Check</div><div>0.9589</div></div>											
OF Steam For:											
QF Steam Flow (% of MCR)	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8			
Pounds Per Hour (Average)	0%	0%	0%	0%	0%	0%	0%	0%	0%		
Pounds Per Year	0	0	0	0	0	0	0	0	0		
Pressure (psig)	450	450	450	450	450	450	450	450	450		
Degrees of SH (F)	50	50	50	50	50	50	50	50	50		
(Input 0 for saturated steam or input actual degrees of SH)											
242											
Cost Related Information:											
Escalation Date 17-Mar-01 244											

FIG. 25

106080 "E28E360

Escalation Rate	4.00%
Last Major Turbine Overhaul	Input for day of the year of work
Cost of Purchased Electricity	01-May-94
Location Adjustment Index	\$0.060
	Base
	CPI Composite
	Index
	Material
	Labor
	98.7
	154.00
Exchange Rate (X/US\$)	
	US\$
Cost per Ton of Fuel (Including trans.)	\$15.00
	Coal FOB mine:
	Transportation:
	\$15.00
	\$30.00
	\$33.07
	per ton
	per tonne
	17.00
	MM Btu's/ton
	\$0.88
	S/MM Btu's - FOB mine
	\$1.76
	S/MM Btu's - Delivered
Disposal Cost per Ton of ASH/Scrubber Sludge	
	\$10.00
	LIMESTONE 1
	LIME 2
	2
Disposal Cost per Ton of ASH/Scrubber Sludge	
	Lime/Limestone
	Cost per Ton Of:
	Lime FOB Mine:
	Transportation:
	Total:
	\$0.00
	\$0.00
	\$15.00
	Oil = 1; NG = 2
	2
Start-up Fuel	Oil Cost Per Gallon (Delivered)
	\$0.80
	NG Cost Per Therm
	Transportation:
	\$0.50

Coal Pricing - Tonne Basis

69.55	84.76	97.06
	121.87%	114.51%
6.66	7.55	8.61
	113.36%	114.04%

Ash - Tonne Basis

21.35	22.68	26.22
	106.23%	115.61%

FIG. 26

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Operator Related Information:										
Operator Fee									\$0	
Operator Bonus									\$0	
Home Office Tech Support									\$0	
Warranty Support									\$0	
Number of Shifts									4	
Union/non-union Facility									0	
Overtime									10%	
Wage Benefits									40%	
<div>248</div> <div>250</div>										
Facility Equipment Information:										
Type of Boiler Equipment (1 or 2)	1	PULVERIZED COAL	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8
	2	FLUIDIZED BED	1	1	1	1	1	1	1	1
Unit Design / Commercial Operation Date			PC	PC	PC	PC	PC	PC	PC	PC
			1	1	1	1	1	1	1	1
Flyash Control System										
	1	ESP	2	1	3	1	1	1	1	1
	2	BAGHOUSE								
	3	BAGHOUSE PLUS GORETEX BAGS								
SO2 Control System:										
	1	NO SO2 EQUIPMENT	3	1	2	1	1	1	1	1
	2	DRY INJECTION								
	3	SCRUBBER								
Mercury Control System										
	1	NO HG CONTROL	2	1	1	1	1	1	1	1
NOx Control System										
	2	ACTIVATED CARBON								

FIG. 27

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1 LOW NOX BURNERS									
2 SNCR									
3 SCR									
Cooling Tower: (Yes=1; No=0)									
Cycle:									
1 ACTUAL CYCLE VALUES									
2 STANDARD 1800 PSIG (NON-REHEAT)									
3 STANDARD 2400 PSIG (5% OP)									
Superheater:									
(-4,080,000 @ 600 MW) (Input Actual Flow Value if Available)									
Flow without QF heat loss									
Equiv. QF Steam Increase									
Total Steam Flow									
Outlet Pressure									
Outlet Temperature									
Reheater:									
~3,770,000 @ 600 MW									
Flow without QF heat loss									
Equiv. QF Steam Increase									
Total Steam Flow									
Inlet Pressure (psig)									
Inlet Temperature (F)									
Outlet Pressure (psig)									
Outlet Temperature (F)									
Feedwater Temperature									
Stack Temperature									
Ambient Temperature									
Spares Cost									
Fuel Loss during Handling:									
SO2 Removal									

FIG. 28

Fuels Information:

ACTUAL ANALYSIS	1
STANDARD BITUMINOUS	2
STANDARD SUBBITUMINOUS	3
STANDARD LIGNITE (TEXAS)	4
STANDARD NATURAL GAS	5

Selected Fuels Input: 1

Fuel Analysis:	Sub-	
	Ultimate Analysis	Bituminous
Moisture	29.80%	
Ash	5.50%	
Carbon	48.30%	
Hydrogen	3.40%	
Nitrogen	0.70%	
Chlorine	0.01%	
Sulfur	0.85%	
Oxygen	11.80%	
	100.36%	
Natural Gas (Gas analysis is entered on fuels page)		
Oxygen	O ₂	0.00%
Argon	A	0.00%
Carbon Dioxide	CO ₂	0.00%
Nitrogen	N ₂	0.00%
Hydrogen	H ₂	0.00%
Hydrogen Sulfide	H ₂ S	0.00%
Methane	CH ₄	0.00%
Ethane	C ₂ H ₆	0.00%
Propane	C ₃ H ₈	0.00%
n-Butane	C ₄ H ₁₀	0.00%
n-Propane	C ₅ H ₁₂	0.00%
n-Hexane	C ₆ H ₁₄	0.00%
Total:		0.00%
Excess Air:	10.00%	
HHV:	0 Btu/CF(1)	
LHV:	0 Btu/CF(1)	
Note 1: (68F, 30"WG)		
Proximate:	Sub-	
	Ultimate Analysis	Bituminous
Excess Air:	20.00%	
HHV:	8,500 Btu/lb	
LHV:	18.28 GJ/tonne	
Fixed Carbon (differential)	33.71%	
Volatile Matter	30.44%	
Sulfur	0.85%	
Moisture	29.55%	
Ash	5.45%	
	100.00%	

FIG. 29

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Furnace Volume Design Parameters	
Volume - Cu. Ft.:	20,000
Surface - Sq. Ft. (EPRS - Up Nose):	200,000
NH/PA:	1,850,000
Carbon Loss	0.25%

FIG. 30

File Name: CoalPer031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Escalation 4.00%
Escalation Factor 1.070

270

	Number of Equipment Sets Per Unit								Unit Gross Output
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	
Development Costs	1	0	0	0	0	0	0	0	373
Internal Costs	373	0	0	0	0	0	0	0	19-Mar-01
Thrd Party Costs									
Project Counsel	\$11,833	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,832.68
Development Contingency	\$12,326	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,325.70
Land Options	\$1,578	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,577.69
Pre NTP EPC Cost	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Development Costs	\$986	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$986.06
	\$1,972	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,972.11
	\$28,694	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,694.24
Development Fee	\$9,057	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,057.13
Mine Acquisition Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Site Purchase	\$12,076	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,076.17
Development Fee/Mine Acquisitions/Site	\$21,133	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21,133.30
Plant									
Boilers									
Headers	\$4,307	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,307.00
Heating Surface	\$21,936	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,936.00
Waterfall	\$12,904	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,904.00
Steel	\$16,533	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,533.00
Firing Equipment	\$10,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,275.00
Misc. Equipment	\$20,646	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,646.00
	\$86,601	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$86,600.65

FIG. 31

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Turbine Generators	\$38,324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,324.29
BAGHOUSE	\$7,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,459.07
SCRUBBER	\$37,253	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,252.60
ACTIVATED CARBON	\$419.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$419.07
SCR	\$37,253	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,252.60
Circulating Water System	\$1,275.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,275.65
Electrical System & Equipment	\$23,330.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23,330.45
Fuel Storage & Handling	\$17,662.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,662.70
Infrastructure	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water Treatment	\$3,132.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,132.42
Other	\$39,755.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,755.15
Misc. Insurance	\$515.62	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$515.62
Fixtures									
Boilers - not plant related	\$446.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$446.53
Chimneys	\$3,500.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,500.06
Cooling Towers	\$20,257.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,257.85
Coal Bunkers	\$1,002.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,002.37
Land & Buildings									
Buildings	\$34,773.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$34,773.70
Other									
EPC Target	\$49,085.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$49,085.86
Total EPC Costs	\$402,046.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$402,046.65
Transmission Fees During Construction	\$4,021.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,021.87
Waste Water Pipeline	\$11,189.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,189.05
Management Services During Construction									
General & Administrative	\$15,382.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,382.48
Professional Services	\$2,760.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,760.96
Engineering Consultants	\$1,972.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,972.11
Utilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Owner's Mobilization G&A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Owner's Costs	\$2,218.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,218.63
Management Services Fee	\$1,725.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,725.60
Total Owner's Costs	\$24,059.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,059.78

FIG. 32

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O&M Mobilization	Labor	\$6,606.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,606.58
	Fee	\$1,015.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,015.64
	G&A	\$374.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$374.70
	Plant Consumables	\$1,356.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,356.81
	Equipment	\$5,423.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,423.31
Infrastructure Costs	Owners G&A	\$9,663.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,663.35
		\$24,440.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,440.39
	Roads	\$8,263.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,263.15
	Community Infrastructure	\$1,054.09	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,054.09
	Mine Industrial Area	\$5,180.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,180.74
Owner's Contingency	Construction Camp	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Water Management	\$1,176.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,176.37
	Total Infrastructure Costs	\$15,674.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,674.85
	Power Plant EPC Costs	\$40,204.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,204.67
	Transmission Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Financing Fees/Costs	Electrical Interconnection	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Infrastructure Costs	\$1,567.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,567.44
	Total Owner's Contingency	\$41,772.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$41,772.10
	Financial Advisor	\$6,409.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,409.37
	Upright Fees	\$8,381.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,381.48
Unit Gross Output		\$14,790.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,790.85
Total Cost											
\$/kW Installed											

FIG. 33

File Name: CoalPer031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Date Hours Of Operation (@end of operational year) Operational Year	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Mar-10	10 Year Average
Waterwall	\$258	\$1,290	\$258	\$258	\$258	\$258	\$258	\$1,290	\$258	\$258	\$464
Heating Surface	\$439	\$2,193	\$439	\$439	\$439	\$439	\$439	\$2,193	\$439	\$439	\$790
Grates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pulverizers	\$0	\$1,032	\$0	\$0	\$0	\$516	\$0	\$1,032	\$0	\$258	\$310
Air Pre-Heaters	\$0	\$1,032	\$0	\$0	\$0	\$516	\$0	\$1,032	\$0	\$258	\$310
Fuel Handling	\$0	\$88	\$0	\$0	\$0	\$88	\$0	\$177	\$0	\$88	\$62
Headers	\$0	\$215	\$0	\$0	\$0	\$0	\$0	\$215	\$0	\$0	\$43
Steel	\$0	\$0	\$0	\$0	\$0	\$17	\$0	\$0	\$0	\$0	\$2
Belts/Crushers	\$0	\$0	\$0	\$0	\$0	\$132	\$0	\$0	\$0	\$0	\$13
Casing/Refractory/Ductwork	\$0	\$0	\$0	\$0	\$0	\$177	\$0	\$0	\$0	\$0	\$18
Chemical Cleaning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550	\$0	\$0	\$55
	\$697	\$5,851	\$697	\$697	\$697	\$2,143	\$697	\$6,489	\$697	\$1,301	\$2,066

FIG. 34


300 

FIG. 35

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General Project Information:

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Operator's Fees & Service:

Operator Fee	\$0
Legal Services	\$139,805
Construction Services	\$146,709
Testing Services	<u>\$41,424</u>
total Fees & Services	\$327,939

Travel: **\$86,300**

Misc. Employee Expenses **\$286,422**

310

FIG. 36

[illegible]

Operator: To Be Determined

Sample Project

Consumables:

Lubricating Oils:	\$379,977
Hydraulic Oil:	
Solvents/Boiler Wash:	
Cleaning Materials:	
Welding Supplies:	
Nuts/Bolts/Small Mechanical Parts:	
Fuses/Light Bulb/Small Elect.Parts:	
Fittings/Small I&E Parts:	
Gas & Oil:	

Total Oils and Lubricants **\$379,977**

Chemicals:

Boiler Water:	62.27%	\$285,603
Cooling Water:	36.38%	\$166,889
Demin.Regen:	1.35%	\$6,194
Fuel Oil:		
Sanitary:		
NOx:		
Aqueous Ammonia:		

Total Chemicals: \$458,686

Gases:

Nitrogen:	\$0
Hydrogen:	\$0
Oxygen/Acetylene:	\$0
NOx, CO, SO2, O2 Span Gas:	\$0

Total Gases: \$0

FIG. 37

320

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Office Supplies & Services:

Postage, Overnight Mail, etc:	\$17,104
Freight:	\$0
Telephone:	\$41,038
Utilities:	\$9,263
Dues, Subscriptions:	\$70,914
Advertising:	\$0
Camera/Film/Photo Supplies:	\$0
Copier/Paper/Services:	\$0
Offices Supplies:	\$40,194
General Supplies:	\$0
Audio Visual Equipment	\$0
Portable Radios/Services:	\$0
Drinking Water:	\$0
Safety Supplies:	\$0
Safety/Environmental Insp:	\$0
Instrument Service/Repair:	\$0
Vehicles/Service/Repair:	\$0
Insurance Autos/Trucks:	\$165,284
Lift Trucks/Service:	\$0
Small Tools:	\$0
Software for Computers:	\$0
Computer Hardware:	\$271
Building Maintenance:	\$0
Janitorial Supplies:	\$4,594
Misc. Expenses:	\$0
Uniforms:	\$13,310
	<u>\$0</u>

Total Supplies and Services: \$361,973

Office Furniture/Rent:

Office Rent:	\$0
Desk/Chairs/etc:	\$0
Lab/Shop/Cntrl. Rm. Equip:	\$0
Computer Lease:	\$0
	<u>\$0</u>

Total Office Furniture: \$0

320

FIG. 38

FOUO "E28E960"

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File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Rentals/Lease:

Tools:	\$15,304
Equipment:	\$261,694
Office:	\$57,431
Office Equipment:	\$1,066,871
Railcar:	\$17,253
Lease Auto/Trucks:	\$1,418,553
Total Rentals:	

Planned Spare Parts:

Boiler:	\$1,731,661
Turbine:	\$766,330
APC Equipment:	\$149,151
Feedwater System:	\$62,661
BOP:	\$176,591
Total Spare Parts:	\$2,886,394

340

FIG. 39

[illegible]**Location: USA**

Proximate Analysis:

HHV (Btu/#) 8,500

Information used in conjunction with the coal classification figure:

Project Coal Classification:

Hardgrove Grind. Index:

FIG. 40

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Ash Mineral Analysis:

Silica - SiO ₂	31.00
Alumina - Al ₂ O ₃	14.00
Titania - TiO ₂	1.10
Ferric Oxide - Fe ₂ O ₃	6.50
Lime - CaO	24.60
Magnesia - MgO	6.00
Potassium Oxide - K ₂ O	0.25
Sodium Oxide - Na ₂ O	1.30
Sulfur Trioxide - SO ₃	12.20
Phosphorous Pentoxide - P ₂ O ₅	0.70
Undetermined	2.35
Total	100.00

Ash Fusion Temperature (Deg. F)	
Initial Deformation-Reducing (Input Data)	2189
Initial Deformation-Oxidizing (Input Data)	2239

PARR Formula Relationships:

BASE/ACID RATIO:
(A range of .4-.7 0.7641
coals and results in low ash-fusibility temps)

IRON/CALCIUM RATIO:
(3-0.3 INDICATIVE 0.26
lowers the fusibility temp. of the ash)

IRON/DOLOMITE RATIO:
(Blt. type ash u: 0.21)

SILICA/ALUMINA RATIO:
(above 2.8 & b 2.21)

FIG. 41

106080"E28E860

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Project Natural Gas Analysis:

Natural Gas Analysis:		Molecular Weight		Lb/100 Moles		Lb Constituent Per Lb Fuel		Lb Air Required for Combustion Per Lb Fuel		Lb Dry Air Per Lb Fuel		BTU's Per Per Constit		BTU's Per Lb Fuel		#Cu Ft (2)		Density #Cu Ft (2)	
		Percent by vol				Per Lb Fuel		Per Lb Fuel		Per Lb Fuel		Per Constit		Lb Fuel		#Cu Ft (2)		#Cu Ft (2)	Density
Oxygen	O2	0.00%	32.00	0.00	#DIV/01					#DIV/01		0		#DIV/01		0.0846		0.0846	0.0846
Argon	A	0.00%	0.00	0.00	#DIV/01			0		#DIV/01		0		#DIV/01		0.117		0.117	0.117
Carbon Dioxide	CO2	0.00%	44.00	0.00	#DIV/01			0		#DIV/01		0		#DIV/01		0.0744		0.0744	0.0744
Nitrogen	N2	0.00%	28.08	0.00	#DIV/01					#DIV/01				#DIV/01		0.0053		0.0053	0.0053
Hydrogen	H2	0.00%	2.02	0.00	#DIV/01			34.34		#DIV/01		61,095		#DIV/01		0.0911		0.0911	0.0911
Hydrogen Sulfide	H2S	0.00%	34.08	0.00	#DIV/01			6.1		#DIV/01		7,097		#DIV/01		0.0425		0.0425	0.0425
Methane	CH4	0.00%	16.03	0.00	#DIV/01			17.27		#DIV/01		23,875		#DIV/01		0.0803		0.0803	0.0803
Ethane	C2H6	0.00%	30.05	0.00	#DIV/01			16.12		#DIV/01		22,323		#DIV/01		0.1196		0.1196	0.1196
Propane	C3H8	0.00%	44.06	0.00	#DIV/01			15.7		#DIV/01		21,669		#DIV/01		0.1582		0.1582	0.1582
Butane	C4H10	0.00%	58.10	0.00	#DIV/01			15.49		#DIV/01		21,321		#DIV/01		0.1904		0.1904	0.1904
Pentane	C5H12	0.00%	72.10	0.00	#DIV/01			15.35		#DIV/01		21,095		#DIV/01		0.2274		0.2274	0.2274
Hexane	C6H14	0.00%	86.12	0.00	#DIV/01					#DIV/01		20,966		#DIV/01					
Total:		0.00%		0.00	#DIV/01					#DIV/01				#DIV/01					

Molecular Weight of Fuel: 0

Flue Gas Weight:

#gas/Cu. Ft. (gas)	0
GHI to GT (MMBTU)	372.8
GHI to Duct Burners	32.26
Total GHI:	405.06
HHV of Fuel (BTU/Cu. Ft.)	0
Cu. Ft. of Gas Fired / Hr	#DIV/01
Lbs. of Gas Fired / Hr	#DIV/01
Lbs. of Air / Hr	#DIV/01
Total Gas Flow @ 0% EA	#DIV/01
	59708
	7144
	426.553952

FIG. 42

Natural Gas Heating Value Conversion Analysis:
17-Mar-01

Natural Gas Analysis:		Percent by vol	Btu/CF (1)	HHV Comp. Btu (68F, 14.70 psia)	HHV Comp. Btu (60F, 14.70 psia)
Oxygen	O2	0.00%	0	0.00	0.00
Argon	A	0.00%	0	0.00	0.00
Carbon Dioxide	CO2	0.00%	0	0.00	0.00
Nitrogen	N2	0.00%	0	0.00	0.00
Hydrogen	H2	0.00%	319.4	0.00	0.00
Hydrogen Sulfide	H2S	0.00%	547	0.00	0.00
Methane	CH4	0.00%	994.7	0.00	0.00
Ethane	C2H6	0.00%	1742.6	0.00	0.00
Propane	C3H8	0.00%	2480.1	0.00	0.00
Butane	C4H10	0.00%	3215.6	0.00	0.00
Pentane	C5H12	0.00%	3950.2	0.00	0.00
Hexane	C6H14	0.00%	4661.236	0.00	0
Total		0.00%	HHV =	0.00	0.00

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Natural Gas Analysis:		Percent by vol	Btu/CF (1)	LHV Comp. Btu (68F, 30"WG)	LHV Comp. Btu (60F, 30"WG)
Oxygen	O2	0.00%	0	0.00	0.00
Argon	A	0.00%	0	0.00	0.00
Carbon Dioxide	CO2	0.00%	0	0.00	0.00
Nitrogen	N2	0.00%	0	0.00	0.00
Hydrogen	H2	0.00%	270	0.00	0.00
Hydrogen Sulfide	H2S	0.00%	595	0.00	0.00
Methane	CH4	0.00%	896	0.00	0.00
Ethane	C2H6	0.00%	194.5	0.00	0.00
Propane	C3H8	0.00%	2282.6	0.00	0.00
Butane	C4H10	0.00%	2968.7	0.00	0.00
Pentane	C5H12	0.00%	3654	0.00	0.00
Hexane	C6H14	0.00%	4311.72	0.00	0
Total		0.00%	LHV =	0.00	0.00

HHV/LHV Ratio #DIV/01

Notes:

(1) Source Mark's Standard Handbook for Mechanical Engineers
Ninth Edition Page 4-29

FIG. 43

Molecular Weights		
S	32.064	1
O	15.999	2
	84.063	
		50.05%

SO2 Offset Cost Assumption \$150.00 \$/Ton
@ 1.2 lbs
SO2/million BTU

Southern Fuels

Mines	Average		Average Ash Content (S%)	In Compliance (Y/N)*	8 % allowed for Compliance	SO2		lbs SO2/MM Btu	SO2 Reduction Efficiency	lbs SO2/MM Btu	Required Offsets Tons SO2/Ton Coal Fired	Cost of Offsets \$/Ton of Coal Fired
	Average BTU/lb	Percent Sulfur (S%)				SO2	Reduction					
Bailey	12,950	2.14%	7.50%	N	0.778%	3.3	10.00%	2.97	0.038462	\$5.769		
Colonial	12,800	0.93%	8.88%	N	0.769%	1.45	0.00%	1.45	0.018560	\$2.784		
Whitetail	12,800	1.60%	8.25%	N	0.769%	2.5	0.00%	2.50	0.032000	\$4.800		
Juliana	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	\$3.870		
Sawmill	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	\$3.870		
Sentential	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	\$3.870		
Winifrede	12,800	0.93%	9.25%	N	0.769%	1.45	0.00%	1.45	0.018560	\$2.784		

8,500	0.92%	5.50%	N	0.511%	2.17	0.00%	2.17	0.018545	\$2.767
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41907.04

FIG. 44

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Provided Information									
Project Info. Check									
	HHV	Tons Fired	BBtu	SO ₂ (tons)	S (tons)	%S			
Unit 1	8,551	756,000	12,929	11,500	5,756	0.76%			
Unit 2	8,551	756,000	12,929	13,510	6,762	0.89%			
Unit 3	8,551	752,000	12,861	12,220	6,116	0.81%			
		2,264,000	38,719	37,230	18,534				
Project Info. Check									
	HHV	Tons Fired	BBtu	SO ₂ (tons)	S (tons)	%S			
Unit 1	8,551	2,272,000	38,856	11,500	5,756	0.25%			
Unit 2	8,551	2,338,000	39,984	13,510	6,762	0.29%			
		4,610,000	78,840	25,010	12,518				

Calculated Information:									
Sub- Bituminous									
Project:	HHV	%S	Tons Fired	MMBtu	Sulfur (tons)	SO ₂ (tons)	#SO ₂ /MMBtu	SO ₂ (1.2#/MMBtu) Allowable Tons	tons of Offset Required
Unit 1	8,500	0.85%	1,617,002	27,489,039	13,745	27,481	2.00	16,493	10,968
Unit 2	8,500	0.85%	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Unit 3	8,500	0.85%	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

FIG. 45

O & M Labor, Purchased Power And Fuel Calculations

GENERAL PROJECT INFORMATION:

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

ANNUAL INFLATION RATE (to present day) 4.0%
BASE DATE 22-Aug-93
ESCALATION DATE 17-Mar-01
Part Year Esc. Factor 1.00

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BASE INDEX

Being Updated Zip Code to be used to identify location

	MODEL	PROJECT	ADJUSTMENT	PROJECT
COMPOST ADJUSTMENT	99.7	0	#DIV/0!	
MATERIAL	99.7	147	147.44%	
LABOR		154	156.03%	

Number of Units 1
Total Installed MW 373
Average Unit Size 373
Multiple Unit Labor Multiplier 1.00

CAPACITY (MW):

SYSTEM: POWER BLOCK

NUMBER OF SHIFTS

Exchange Rate 1

4 Operations and Maintenance
1 Administration

LABOR SUMMARY (ADJUSTED FOR LOCATION)

FIG. 46

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ADMINISTRATIVE:	NUMBER PER SHIFT	NUMBER OF SHIFT(S)	NUMBER OF EMPLOYEES PER POSITION	HOURLY WAGE	OVERTIME (YES=1/NO=0)	ANNUAL WAGE Per Employee	ANNUAL Wage with O.T. per Employee	FRINGES	ANNUAL Wage with Fringes per Employee	ANNUAL COST
PLANT MANAGER	1	1	1	N/A	0	\$100,944	\$100,944	40%	\$141,321	141,321
OPERATIONS MANAGER	1	1	1	N/A	0	\$87,485	\$87,485	40%	\$122,478	122,478
MAINTENANCE MANAGER	1	1	1	N/A	0	\$80,755	\$80,755	40%	\$113,057	113,057
PLANT/RESULTS MANAGER	1	1	1	N/A	0	\$74,025	\$74,025	40%	\$103,638	103,638
OFFICE MANAGER	1	1	1	\$20.19	1	\$41,983	\$46,192	40%	\$64,669	64,669
ACCOUNTANT	2	1	2	\$18.34	1	\$39,193	\$43,112	40%	\$60,357	120,715
ACCOUNT CLERK	2	1	2	\$14.81	1	\$30,795	\$33,874	40%	\$47,424	94,847
SECRETARY	3	1	3	\$13.46	1	\$27,995	\$30,795	40%	\$43,112	128,337
PLANT/RESULTS ENGINEER	1	2	2	N/A	0	\$53,837	\$53,837	40%	\$75,371	150,743
STOCK CLERK	2	4	9	\$14.81	1	\$30,795	\$33,874	40%	\$47,424	379,389
SUB-TOTAL										1,420,192

22

SUB-TOTAL

Total Admin. Labor

OPERATIONS:	NUMBER PER SHIFT	NUMBER OF SHIFT(S)	NUMBER OF EMPLOYEES PER POSITION	HOURLY WAGE	OVERTIME (YES=1/NO=0)	ANNUAL WAGE	ANNUAL Wage with O.T. per Employee	FRINGES	ANNUAL COST	
									Employee	ANNUAL
SHIFT SUPERVISOR	1	4	4	N/A	1	\$74,025	\$81,428	40%	\$113,999	\$455,997
CONTROL ROOM OPERATOR	1	4	4	N/A	1	\$67,298	\$74,025	40%	\$103,636	\$414,542
CHEMIST	1	4	4	N/A	1	\$60,566	\$66,823	40%	\$93,272	\$373,088
APC EQUIP. OPERATOR	2	4	8	N/A	1	\$67,298	\$74,025	40%	\$103,636	\$829,085
ROVER	1	4	4	\$21.50	1	\$44,792	\$49,271	40%	\$68,980	\$275,919
SWEEPER/OPERATOR	1	4	4	\$17.50	1	\$36,394	\$40,033	40%	\$56,046	\$224,185
FRONT-END LOADER	1	4	4	\$17.50	1	\$36,394	\$40,033	40%	\$56,046	\$224,185
			32							
MAINTENANCE:										
MECHANICS	1	4	4	\$32.30	1	\$67,188	\$73,907	40%	\$103,407	\$413,879
MECHANICS HELPERS	1	4	4	\$24.23	1	\$50,391	\$55,430	40%	\$77,602	\$310,409
TRUCK DRIVERS	1	4	4	\$18.84	1	\$39,193	\$43,112	40%	\$60,357	\$241,428
ASH/APC SLUDGE MOVER	2	4	8	\$18.84	1	\$39,193	\$43,112	40%	\$60,357	\$482,859
APC MECHANICS	2	4	8	\$32.30	1	\$67,188	\$73,907	40%	\$103,470	\$827,756
			28							

SUB-TOTAL

80

Adjusted for local labor requirements yes=1, no=0

TOTAL DIRECT LABOR:
TOTAL PLANT STAFF:
AVERAGE COST PER EMPLOYEE:

Uncorrected
\$8,459,453
102
\$82,936

Corrected
\$8,459,453
102
\$82,936

SUB-TOTAL , O & M PLANT LABOR:
\$0
\$87,990.76
\$82,850.54
Corrected
\$8,459,453
102
\$82,936

FIG. 47

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III. REPLACEMENT RESERVE

V. MISC. EXPENSES

Not Including Building Data Base						
WATER & SEWER	GPY		CCF		COST	
	WATER :	#REF1	#REF1	#REF1	#REF1	#REF1
	SEWER :	#REF1	#REF1	#REF1	#REF1	(1993\$)
	TOTAL WATER & SEWER				#REF1	(1996\$)
INSURANCE	POLICIES					
	APPROXIMATION					
	1. ALL RISK POLICY (\$90 MILLION)		\$205,035			
	BUSINESS INTERRUPTION (\$15 MILLION)		\$80,406			
	3. THIRD PARTY LIABILITY		\$250,000			
	4. POLLUTION LIABILITY (\$1 MILLION)		\$50,000			
	TOTAL INSURANCE		\$(1993\$)			
			\$0			
			\$0			
PURCHASED POWER	HOUSE LOAD		UNIT 1	UNIT 2	UNIT 3	UNIT 4
	HOUSE LOAD-KW		5.50%	0.00%	0.00%	0.00%
	HOURS PER YEAR OFF LINE		20,489	0	0	0
	% OF HOUSE LOAD PURCHASED		916.8	0	0	0
	POWER COST		10%	0%	0%	0%
ELECTRIC COST	ELECTRIC COST		0.06	0	0	0
	DEMAND CHARGE		\$112,706	\$0	\$0	\$0
			\$100,000	\$0	\$0	\$0
TOTAL ELECTRICITY COST			\$212,706	\$0	\$0	\$0

FIG. 48

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START-UP FUEL	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8
APPROXIMATE DAYS OFF LINE	21	0	0	0	0	0	0	0
NUMBER OF STARTS PER YEAR (AVG. 3 DAY Outage)	7	0	0	0	0	0	0	0
GROSS HEAT INPUT OF UNIT (MILLION BTU'S PER HOUR)	3555	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
GHI OF START-UP BURNERS-15% of GHI (MILLION BTU'S PER HOUR)	533.25	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
AVERAGE LENGTH OF START-UP (HOURS)	4	4	4	4	4	4	4	4
HEAT INPUT FROM STARTS	14,931	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
TOTAL MILLION BTU'S REQUIRED FOR START-UP	14,931	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
NATURAL GAS REQUIRED @	\$29,862							
OIL REQUIRED @	\$84,715	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
	Gallons							

REAL ESTATE TAXES
NOT INCLUDED IN ESTIMATE

<u>WHEELING COST</u>	<u>Facility C</u>	<u>Facility D</u>
	\$1,899,240	\$3,311,600
Calculated Value:	1.75198561	2.603019553

FIG. 49

This tab is being used to adjust variations in heat rate at partial loads in the performance section of the model

Exhaust Pressure	%	Change	7746	7993	1.0	7993	8003	8000	8016	8227	9067	Boiler Feedwater Temperature-F:			460
												Number of Feedwater Heaters:			
0.5	3.12%											1,025,000	900,000	156,200	

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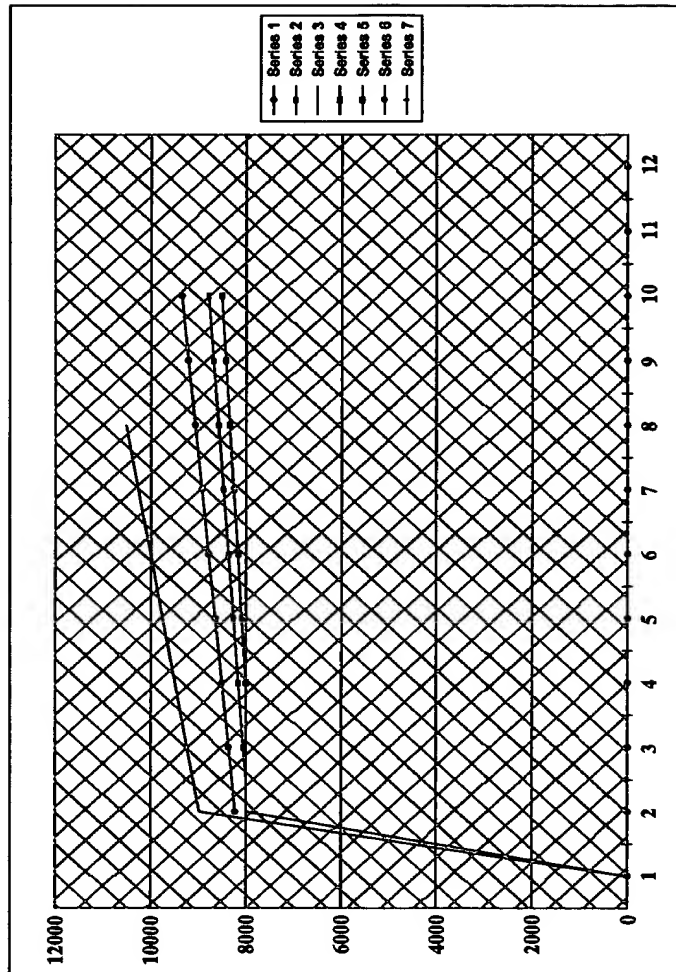


FIG. 50

TC2F

Last Stage Bucket Length

30

EXH Pres	VWO-OP	VWO	100%	75%	50%	25%
1.0	7832	7853	7844	7907	8225	9293
1.5	7884	7915	7918	8068	8531	9790
2.0	7995	8040	8050	8276	8797	10208
2.5	8149	8208	8212	8464	9045	10558
3.0	8312	8376		8636	9272	
3.5	8466	8536		8803	9479	
4.0	8612	8688		8962	9670	
4.5	8757	8841		9112	9844	
5.0	8901	8991		9254	10005	

Flow Rates

Superheater Reheater Gen-KW

1,025,000 900,000 156,200

Boiler Feedwater Temperature-F: 460

Number of Feedwater Heaters: 6

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Heat Rates

Load	20%	25%	30%	35%	40%	45%	50%	55%	0.61%
Test Heat Rates	13,463	12,476	11,827	11,371	11,036	10,782	10,584	10,427	
calc. uncorrected	9,742	9,773	9,805	9,836	9,868	9,900	9,932	9,964	
Steam correction factor	1.382	1.277	1.206	1.158	1.118	1.089	1.066	1.046	
	1.1291239	1.11890487	1.10868585	1.09846682	1.0882478	1.07802877	1.06780975	1.05759072	

-8.80% -5.24% -2.77% -1.03% 0.20% 1.05%

Check	20%	25%	30%	35%	40%	45%	50%	55%
200MW Tandem Compound		9,650					8,523	
350MW Tandem Compound		10,143					8,712	
400MW Tandem Compound		10,225					8,767	
600MW Tandem Compound		9,994					8,500	

FIG. 51

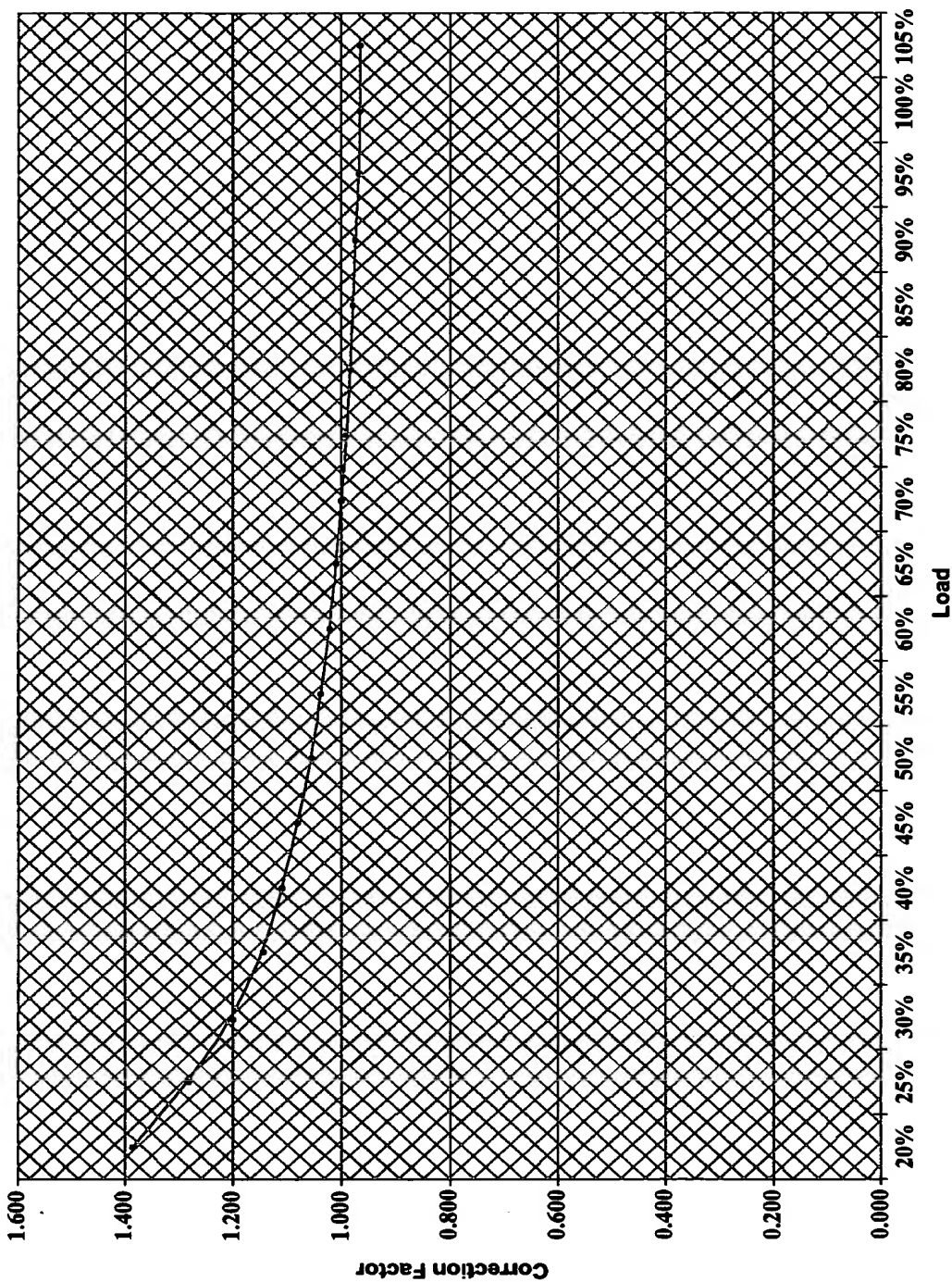
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0.67%	0.72%	0.78%	0.83%	0.89%	0.94%	1.00%	1.06%	1.11%	1.17%
60%	65%	70%	75%	80%	85%	90%	95%	100%	105%
10,301	10,198	10,114	10,045	9,988	9,941	9,902	9,870	9,844	9,823
9,997	10,030	10,063	10,096	10,130	10,163	10,197	10,231	10,266	10,300
1,030	1,017	1,005	0,995	0,986	0,978	0,971	0,965	0,959	0,954
1.0473717	1.03715267	1.02693365	1.01671462	1.0064956	0.99627657	0.98605755	0.97583852	0.9656195	0.95540047
1.62%	1.97%	2.13%	2.14%	2.04%	1.82%	1.52%	1.14%	0.70%	0.18%
60%	65%	70%	75%	80%	85%	90%	95%	100%	105%
			8,133					8,036	8,010
			8,189					7,955	7,906
			8,210					7,964	7,911
			8,009					7,872	7,848

FIG. 52

-0.0817522
0.00444444
1.17

Steam Flow Correction Factor



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FIG. 53

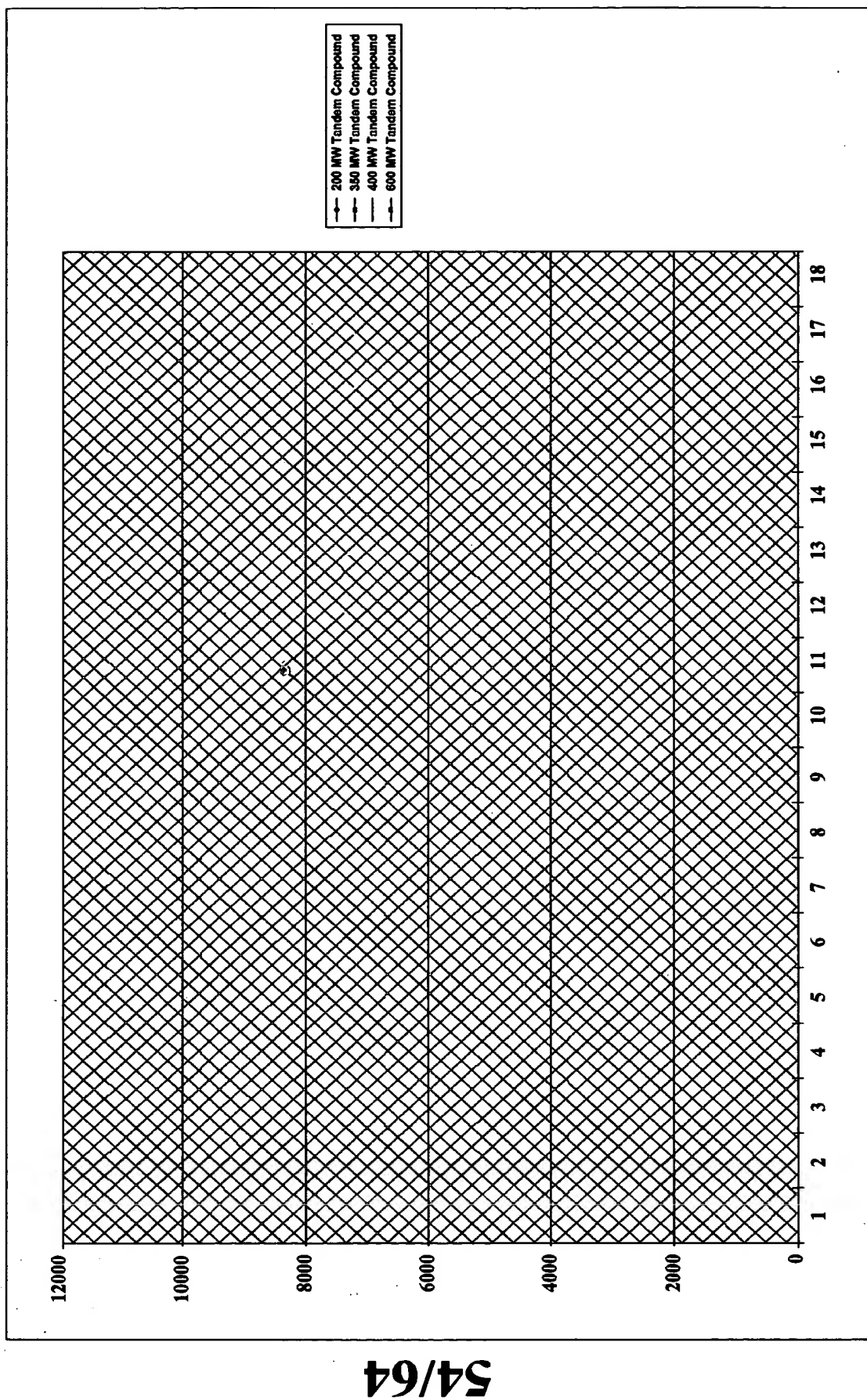


FIG. 54

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

IE Dispatch Information: For Reference Only										
Average Capacity: 373										
Capacity Factor	2001	2002	2003	2004	2005	2006	2007	2008	2009	
Calculated Capacity Factor	83.70%	85.00%	71.30%	69.60%	67.50%	68.10%	67.10%	68.00%	67.90%	
Availability	90.00%	90.00%	90.00%	88.03%	87.78%	87.78%	87.78%	87.34%	87.78%	
Average Load	93.00%	94.44%	979.22%	77.33%	75.00%	75.67%	74.56%	90.00%	90.00%	
Hours in Years	8,760	8,760	8,784	8,760	8,760	8,760	8,760	8,760	8,760	
Hours Dispatched	7,884	7,884	7,906	7,884	7,884	7,884	7,884	7,884	7,884	
Annual Output	2,731,405	2,773,829	2,33,127	2,721,276	2,202,746	2,222,326	2,195,692	2,219,063	2,215,800	
Calculated Annual Output	2,921,796	2,515,870	2,864,503	2,872,651	2,864,503	2,864,503	2,864,503	2,524,019	2,864,503	

Major Outages

1

Hours Available for Dispatched										
January	2001	2002	2003	2004	2005	2006	2007	2008	2009	
February	744	744	744	744	744	744	744	744	744	
March	672	672	672	672	672	672	672	672	672	
April	240	240	240	240	240	240	240	240	240	
May	720	720	720	720	720	720	720	720	720	
June	744	744	744	744	744	744	744	744	744	
July	720	720	720	720	720	720	720	720	720	
August	744	744	744	744	744	744	744	744	744	
September	744	744	744	744	744	744	744	744	744	
October	720	720	720	720	720	720	720	720	720	
November	744	744	744	744	744	744	744	744	744	
December	744	744	744	744	744	744	744	744	744	
Total	8258	7248	8258	8280	8256	8256	8256	8258	8256	

Hours Dispatched										
January	2001	2002	2003	2004	2005	2006	2007	2008	2009	
February	744	692	692	692	692	692	692	692	692	
March	672	625	625	647	625	625	625	647	625	
April	240	226	226	226	226	226	226	226	226	
May	720	677	677	677	677	677	677	677	677	
June	744	707	707	707	707	707	707	707	707	
July	720	684	684	684	684	684	684	684	684	
August	744	714	714	714	714	714	714	714	714	
September	720	684	684	684	684	684	684	684	684	
October	744	0	707	707	707	707	707	0	707	
November	720	429	677	677	429	677	677	429	677	
December	744	699	699	699	699	699	699	699	699	
Total Hours Dispatched	8258	6851	6851	7828	7806	7806	7806	6873	7806	
Percentage of Available Hours	100.00%	94.52%	94.54%	94.54%	94.54%	94.54%	94.54%	94.51%	94.54%	
Percentage of Annual Hours	94.25%	78.20%	89.10%	89.1%	89.10%	89.10%	89.10%	78.24%	89.10%	
Average Annual Load	95.00%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.58%	98.51%	

FIG. 55

1

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FIG. 56

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Unit 1 Dispatch Information:							
Hours Available for Dispatch	January-01	February-01	March-01	April-01	May-01	June-01	July-01
Percentage of Hours Dispatched	744	672	240	720	744	720	744
Average Dispatched Load	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Fuel Fired tons/hr	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
	195.86	195.86	195.86	195.86	195.86	195.86	195.86
Total Ash (100% up)- tons	145,718	131,616	47,006	141,018	145,718	141,018	145,718
Total Limestone (100% up)- tons	8,015	7,239	2,585	7,756	8,015	7,756	8,015
Total Flyash/Limestone Load- tons	2,160	1,951	697	2,090	2,160	2,090	2,160
Heat Rate Information:	10,174	9,189	3,282	9,864	10,174	9,846	10,174
Gross Generation	263,301,377	237,820,598	84,935,928	254,807,784	263,301,377	254,807,784	263,301,377
Unit 1 Gross Heat Rate- BTU/kWh:	9,408	9,408	9,408	9,408	9,408	9,408	9,408
Net Generation	248,819,801	224,740,465	80,264,452	240,793,356	248,819,801	240,793,356	248,819,801
Plant Net Heat Rate- BTU/kWh:	9,956	9,956	9,956	9,956	9,956	9,956	9,956
Unit 1 Dispatch Information:							
Hours Available for Dispatch	January-02	February-02	March-02	April-02	May-02	June-02	July-02
Percentage of Hours Dispatched	744	672	240	720	744	720	744
Average Dispatched Load	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Fuel Fired tons/hr	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%
	202.48	202.48	200.27	202.48	202.48	204.89	206.90
Total Ash (100% up)- tons	140,097	126,539	45,180	137,035	143,110	140,006	147,777
Total Limestone (100% up)- tons	7,705	6,960	2,485	7,537	7,871	7,700	8,128
Total Flyash/Limestone Load- tons	2,232	2,016	712	2,160	2,232	2,184	2,281
Heat Rate Information:	9,938	8,976	3,197	9,697	10,104	9,884	10,409
Gross Generation	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Unit 1 Gross Heat Rate- BTU/kWh:	9,428	9,428	9,422	9,428	9,428	9,435	9,442
Net Generation	238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:	9,977	9,977	9,970	9,977	9,977	9,984	9,991

FIG. 57

Unit 1 Gross Capacity: 373

August-01	September-01	October-01	November-01	December-01	Gross Capacity Factor:	2001
744	720	744	720	744		89.53%
100.00%	100.00%	100.00%	100.00%	100.00%		
95.00%	95.00%	95.00%	95.00%	95.00%		
195.86	195.86	195.86	195.86	195.86	Fuel Fired	2,350.29
141,018	141,018	145,718	141,018	145,718	tons/hr	1,617,002
7,756	7,756	8,015	7,756	8,015	Total Ash (100% up)- tons	88,935
2,090	2,090	2,160	2,090	2,160	Total Limestone- tons	23,964
9,846	9,846	10,174	9,846	10,174	Total Flyash/Limestone Load- tons	112,899
254,807,784	254,807,784	263,301,377	254,807,784	263,301,377	Gross Generation	2,921,795,923
9,408	9,408	9,408	9,408	9,408	Unit 1 Gross Heat Rate- BTU/kWh:	9,408
240,793,356	240,793,356	248,819,801	240,793,356	248,819,801	Net Generation	2,761,097,147
9,956	9,956	9,956	9,956	9,956	Plant Net Heat Rate- BTU/kWh:	9,956
August-02	September-02	October-02	November-02	December-02	Gross Capacity Factor:	2002
744	720	0	456	744		77.10%
96.00%	95.00%	95.00%	94.00%	94.00%		
100.00%	99.00%	98.00%	98.00%	98.00%		
206.90	204.89	202.48	202.48	202.48	Fuel Fired	2,440.77
147,777	140,006	0	86,789	141,603	tons	1,395,919
8,128	7,700	0	4,773	7,788	Total Ash (100% up)- tons	76,776
2,281	2,184	0	1,368	2,232	Total Limestone- tons	21,885
10,409	9,884	0	6,142	10,021	Total Flyash/Limestone Load- tons	98,661
266,072,970	252,259,706	0	156,485,954	255,319,188	Gross Generation	2,515,870,136
9,442	9,435	#DIV/0!	9,428	9,428	Unit 1 Gross Heat Rate- BTU/kWh:	9,432
251,438,957	238,385,422	0	147,879,226	241,276,632	Net Generation	2,377,497,279
9,991	9,934	#DIV/0!	9,977	9,977	Plant Net Heat Rate- BTU/kWh:	9,981

FIG. 58

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Unit 1 Dispatch Information:							
Hours Available for Dispatch	January-03	February-03	March-03	April-03	May-03	June-03	July-03
Percentage of Hours Dispatched	744	672	240	720	744	720	744
Average Dispatched Load	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Fuel Fired tons/hr	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%
Total Ash (100% up)- tons	202.48	202.48	200.27	202.48	202.48	204.89	206.90
Total Limestone (100% up)- tons	140,097	126,539	45,180	137,035	143,110	140,006	147,777
Total Flyash/Limestone Load- tons	7,705	6,960	2,485	7,537	7,871	7,700	8,128
Heat Rate Information:	2,232	2,016	712	2,160	2,232	2,184	2,281
Gross Generation	9,938	8,976	3,197	9,697	10,104	9,884	10,409
Unit 1 Gross Heat Rate- BTU/kWh:	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Net Generation	9,428	9,428	9,422	9,428	9,428	9,435	9,442
Plant Net Heat Rate- BTU/kWh:	238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
	9,977	9,977	9,970	9,977	9,977	9,984	9,991

Unit 1 Dispatch Information:							
Hours Available for Dispatch	January-04	February-04	March-04	April-04	May-04	June-04	July-04
Percentage of Hours Dispatched	744	696	240	720	744	720	744
Average Dispatched Load	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Fuel Fired tons/hr	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%
Total Ash (100% up)- tons	202.48	202.48	200.27	202.48	202.48	204.89	206.90
Total Limestone (100% up)- tons	140,097	131,058	45,180	137,035	143,110	140,006	147,777
Total Flyash/Limestone Load- tons	7,705	7,208	2,485	7,537	7,871	7,700	8,128
Heat Rate Information:	2,232	2,088	712	2,160	2,232	2,184	2,281
Gross Generation	9,938	9,297	3,197	9,697	10,104	9,884	10,409
Unit 1 Gross Heat Rate- BTU/kWh:	252,603,026	236,306,057	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Net Generation	9,428	9,428	9,422	9,428	9,428	9,435	9,442
Plant Net Heat Rate- BTU/kWh:	238,709,860	223,309,224	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
	9,977	9,977	9,970	9,977	9,977	9,984	9,991

FIG. 59

2003		2004	
August-03	September-03	October-03	November-03
744	720	744	720
96.00%	95.00%	95.00%	94.00%
100.00%	99.00%	98.00%	98.00%
206.90	204.89	202.48	202.48
147,777	140,006	143,110	137,035
8,128	7,700	7,871	7,537
2,281	2,184	2,232	2,160
10,409	9,884	10,104	9,697
266,072,970	252,259,706	258,035,349	247,083,085
9,442	9,435	9,428	9,428
251,438,957	238,385,422	243,843,405	233,493,515
9,991	9,934	9,977	9,977
August-04	September-04	October-04	November-04
744	720	744	720
96.00%	95.00%	95.00%	94.00%
100.00%	99.00%	98.00%	98.00%
206.90	204.89	202.48	202.48
147,777	140,006	143,110	137,035
8,128	7,700	7,871	7,537
2,281	2,184	2,232	2,160
10,409	9,884	10,104	9,697
266,072,970	252,259,706	258,035,349	247,083,085
9,442	9,435	9,428	9,428
251,438,957	238,385,422	243,843,405	233,493,515
9,991	9,934	9,977	9,977
Gross Capacity Factor:		Gross Capacity Factor:	
87.78%		88.03%	
Fuel Fired		Fuel Fired	
tons/hr		tons/hr	
2,440.77		2,440.77	
Total Ash (100% up)- tons		Total Ash (100% up)- tons	
1,589,275		1,589,275	
Total Limestone- tons		Total Limestone- tons	
87,410		87,410	
Total Flyash/Limestone Load- tons		Total Flyash/Limestone Load- tons	
24,910		24,910	
112,321		112,321	
Gross Generation		Gross Generation	
2,864,502,616		2,864,502,616	
Unit 1 Gross Heat Rate- BTU/kWh:		Unit 1 Gross Heat Rate- BTU/kWh:	
9,432		9,432	
Net Generation		Net Generation	
2,706,954,973		2,706,954,973	
Plant Net Heat Rate- BTU/kWh:		Plant Net Heat Rate- BTU/kWh:	
9,981		9,981	

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FIG. 60

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<u>Unit 1 Dispatch Information:</u>		<u>January-05</u>	<u>February-05</u>	<u>March-05</u>	<u>April-05</u>	<u>May-05</u>	<u>June-05</u>	<u>July-05</u>
Hours Available for Dispatch		744	672	240	720	744	720	744
Percentage of Hours Dispatched		93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Average Dispatched Load		98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%
Fuel Fired tons/hr		202.48	202.48	200.27	202.48	202.48	204.89	206.90
Total Ash (100% up)- tons		140,097	126,539	45,180	137,035	143,110	140,006	147,777
Total Limestone (100% up)- tons		7,705	6,960	2,485	7,537	7,871	7,700	8,128
Total Flyash/Limestone Load- tons		2,232	2,016	712	2,160	2,232	2,184	2,281
Heat Rate Information:		9,938	8,976	3,197	9,697	10,104	9,884	10,409
Gross Generation		252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Unit 1 Gross Heat Rate- BTU/kWh:		9,428	9,428	9,422	9,428	9,428	9,435	9,442
Net Generation		238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:		9,977	9,977	9,970	9,977	9,977	9,984	9,991

FIG. 61

FIG. 62

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Assumed Tax (per ton of Carbon):	\$40
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		Sub- Bituminous
Facility Net Heat Rate (HHV):	BTU/KWH	9,956
HHV of Coal:	BTU/#	8,500
Percent Carbon in Coal (WT)		48.30%
Unit Capacity:	MW	373
Carbon Loss:		0.25%
Molecular Weight of Carbon		12.01
Molecular Weight of O2		32.00
Price per MMBtu from Coal		1.11
Price per Ton of Coal (delivered)	per Ton	\$30.00
Net KWH Produced:		2,761,097,147
Coal Fired	Tons	1,617,002
Carbon in Flue Gas	Tons	781,012
CO2	Tons	2,861,804
Fuel Cost:	Total	\$48,631,344
	\$/kwh	\$0.0176
	Carbon Tax:	\$31,240,484
	per KWH	\$0.0113
	per MMBtu	\$1.14

Tons CO2/kWh

0.001036473

FIG. 63

106080" 22822860

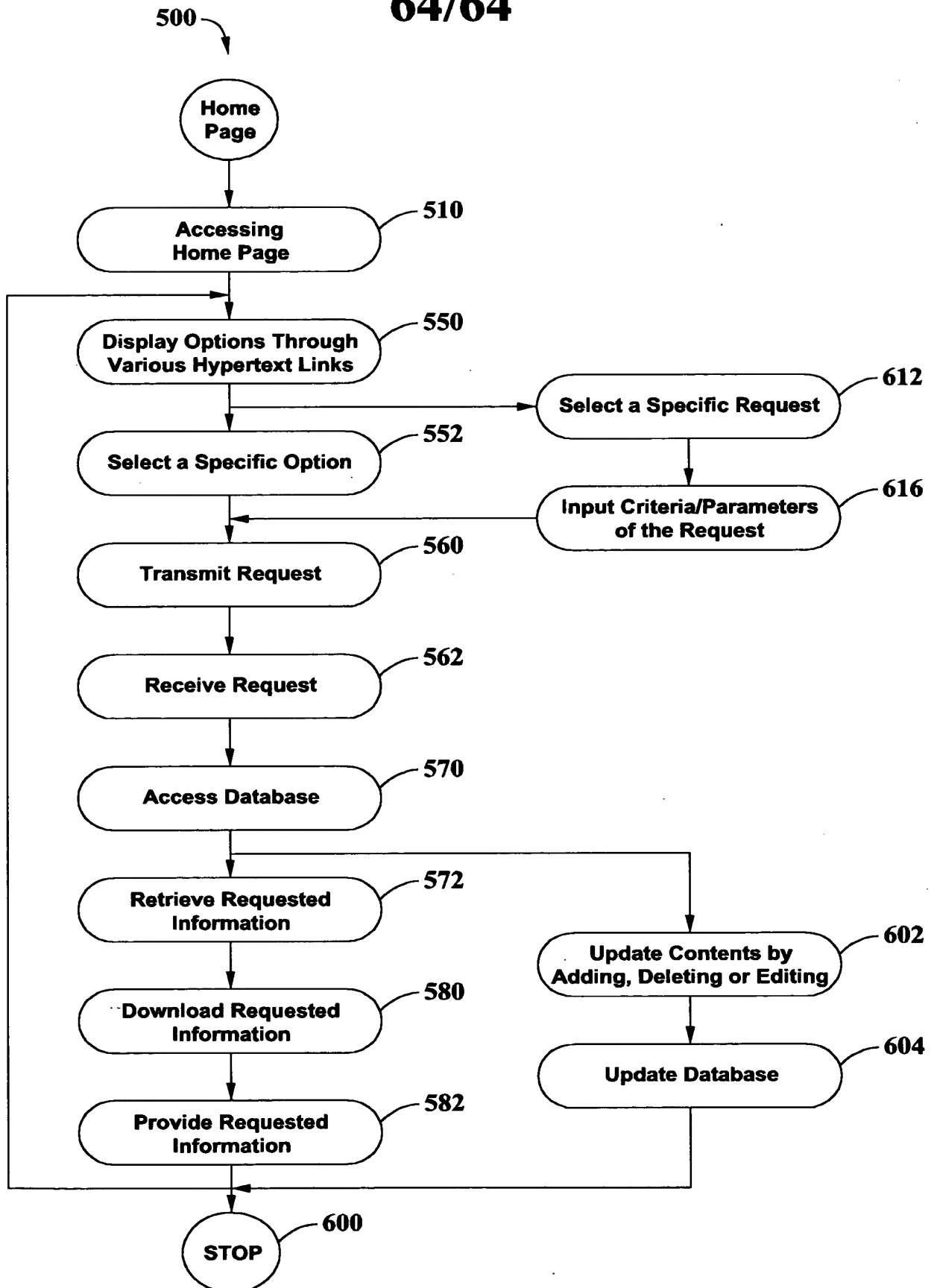


FIG. 64